| | | | |
|---|---|---|---|
| 10* | Water Permeability of Coating | w< 0.1 kg/m$^2$ . h$^{0.5}$ | EN 1062-3-2008 or similar |
| 11 | Re-coatability | Min. 2 h to 72 h or as per manufacturer's specification with the approval of the Engineer in Charge | |
| 12 | Tensile Strength | > 1.5 N / mm$^2$ | ASTM D 638 |
| 13 | Elongation | > 200% | ASTM D 638 |
| 14 | Salt Spray Test | Pass: No Damage or Blistering after atleast 400 Hours Exposure | ASTM B 117 |
| 15 | Crack Bridging Capacity | > 2.0 mm | ASTM C1305 – 2008 |

**Notification No.19**

**Amendment No.1/IRC:SP:65 /November, 2018 (Effective from 31st January, 2019)**

**To**

**IRC:SP:65-2018 "Guidelines for Design and Construction of Segmental Bridges (First Revision)"**

| S.N. | Clause No. Page No. | For | Read |
|---|---|---|---|
| 1. | 3.2.1 (Page 3) | The stresses at the least compressive face under Rare Combination of Loads shall be limited to minimum residual compression of 0.5 MPa in case of epoxy jointed precast segments. | The stresses at the least compressive face under Rare Combination of Loads shall be limited to minimum residual compression of 0.5 MPa at joint locations in case of epoxy jointed precast segments. |
| 2. | 3.2.2 (Page 3) | The limits specified in clause 12.2.2 of IRC:112 apply to all types of segmental bridges except longitudinal reinforcement of precast segmental bridges, where these stress checks have no relevance. | The limits specified in clause 12.2.2 of IRC:112 apply to all types of segmental bridges except in the longitudinal reinforcement of precast segmental bridges, where these stress checks have no relevance. |
| 3. | 3.3 (Page 3 & 4) | The crack width limitations given in clause 12.3 of IRC:112 apply to all types of segmental bridges except at joints of precast segmental structure where minimum compressive stress limitations of para 3.2.1 above apply. The decompression limits of Table 12.1 of IRC:112 apply to Prestressed members with bonded tendons. | The crack width limitations given in clause 12.3 of IRC:112 apply to all types of segmental bridges except at joints of epoxy jointed precast segmental structure where minimum compressive stress limitations of para 3.2.1 above apply. The decompression limits of Table 12.1 of IRC:112 apply to Prestressed members with bonded tendons for structures built in severe, very severe and extreme environmental conditions. |
| 4. | 3.5.2.2 Page (4) | For Structure with external unbonded tendons, the shear resistance shall be calculated as per clause 10.3.3.4 (2) of IRC:112.<br>For this purpose, the equation 10.18 of IRC:112 shall be modified as follows:<br>$V_{NS}/0.85 = V_{ED} < h_{redc} b_w v f_{ed} / (\cot\theta + \tan\theta)$<br>And equation 10.19 modified as follows:<br>$A_{SW}/S = V_{ED}/h_{redc} v_{fed} \cot\theta$ | For Structure with external unbonded tendons, the shear resistance shall be calculated as per clause 10.3.3.4 (2) of IRC:112. |